

CLAIMS

What is claimed is:

- 5 1. An apparatus for replacing transmission fluid comprising in combination: a transmission interconnected with a spent fluid container for receiving a spent fluid from the transmission and a new fluid container for holding a new transmission fluid; a means for sealing within a dipstick tube of the transmission, the sealing means providing a sealing means aperture enabling fluid flow therethrough; a spent fluid line interconnected
10 between the transmission and the spent fluid container; a new fluid line interconnected between the new fluid container and the sealing means; and a transfer fluid line interconnected between the spent and the new fluid containers; enabled so that spent fluid from the transmission is forced directly to the spent fluid container, forcing air from the spent fluid container into the new fluid container and forcing new fluid from the new
15 fluid container into the transmission through the sealing means, the apparatus enabled by sealed closure for developing suction at the sealing means so as to further urge new fluid into the dipstick tube from the new fluid line.
2. The apparatus of claim 1 further comprising a means for directing fluid flow, the flow directing means providing two inlet orifices and an outlet orifice, the flow directing
20 means enabled for receiving fluid through either one of the inlet orifices, while discharging the fluid through the outlet orifice, and further while checking fluid flow through the other of the inlet orifices, the flow directing means conducting fluid from the transmission to the spent fluid container.
3. The apparatus of claim 2 wherein the flow directing means provides opposing check
25 valves each enabling fluid flow toward the other, the outlet orifice positioned between the check valves.
4. The apparatus of claim 1 wherein the spent fluid enters the spent fluid container through an inlet port positioned in the bottom of the spent fluid container, and the air is forced out of an outlet port positioned at the top of the spent fluid container.

5. The apparatus of claim 1 wherein the new fluid exits the new fluid container through an outlet port positioned in the bottom of the new fluid container, and the air is forced into an inlet port positioned at the top of the new fluid container.
6. The apparatus of claim 1 further comprising a transfer check valve in the transfer line,
5 the transfer check valve positioned for preventing fluid flow from the new fluid container to the spent fluid container.
7. The apparatus of claim 1 further comprising an inlet valve in the transfer line, the inlet valve enabled for directing compressed air into the spent fluid container and the new fluid container for draining thereof.
- 10 8. The apparatus of claim 7 further comprising a pair of drain valves, one of the drain valves engaged with the spent fluid line and enabled for draining the spent fluid from the spent fluid container, the other of the drain valves engaged with the new fluid line and enabled for draining the new fluid from the new fluid container.
9. A method for replacing transmission fluid comprising the steps of: interconnecting a
15 transmission with a spent fluid container for receiving a spent fluid from the transmission; interconnecting a new fluid line between a new fluid container holding a new fluid, and a sealing means in a dipstick tube of the transmission; interconnecting a transfer fluid line between the spent and the new fluid containers; directing spent fluid from the transmission to spent fluid container; directing air from the spent fluid container
20 displaced by the spent fluid, into the new fluid container through the transfer fluid line; and directing new fluid from the new fluid container through the new fluid line into the dipstick tube of the transmission for replenishing the spent fluid.
10. The method of claim 9 further comprising the steps of providing a flow directing means with dual inlet orifices; inserting the flow directing means into a cooling line of the
25 transmission.
11. The method of claim 10 further comprising the step of providing opposing check valves in the flow directing means; enabling fluid flow from either one of the check valves toward the other one of the check valves; and positioning the outlet orifice between the check valves for receiving flow from either one of the check valves.

12. The method of claim 9 further comprising the step of sealing the new fluid line in the dipstick tube.
13. The method of claim 9 further comprising the step of receiving the spent fluid into the spent fluid container through an inlet port positioned at the bottom of the spent fluid container; and forcing the air out of an outlet port positioned at the top of the spent fluid container.
14. The method of claim 9 further comprising the step of receiving the air into the new fluid container through an inlet port positioned at the top of the new fluid container; and forcing the new fluid out of an outlet port positioned at the bottom of the new fluid container.
15. The method of claim 9 further comprising the step of placing a transfer check valve in the transfer line, and enabling the check valve for preventing fluid flow from the new fluid container to the spent fluid container.
16. The method of claim 9 further comprising the step of placing an inlet valve in the transfer line and directing compressed air through the inlet valve and into the spent fluid container and the new fluid container.
17. The method of claim 16 further comprising the steps of placing a pair of drain valves, engaging one of the drain valves with the spent fluid line thereby draining the spent fluid from the spent fluid container and engaging the other of the drain valves with the new fluid line thereby draining the new fluid from the new fluid container.